AMENDMENTS TO THE CLAIMS:

No amendments to the claims are being made at this time. However, a listing of all of the claims in this application are provided below:

- 1. (Original) A method for forming a multiple identity substrate material comprising the steps of:
 providing a first affinity sequence at multiple locations on a support;
 providing a functionalized second affinity sequence, which reacts with the first affinity sequence, and has an unhybridized overhang sequence; and selectively cross-linking first affinity sequences and second affinity sequences.
- 2. (Original) The method of claim 1, wherein the cross-linking is performed by UV irradiation of psoralen.
- 3. (Original) The method of claim 1, wherein at least one location on the support with the first affinity sequence is masked to prevent cross-linking of the first and second affinity sequences.
- 4. (Original) The method of claim 1, wherein the first affinity sequence is covalently attached to the support.
- 75. (Original) The method of claim 4, wherein the support is reacted with aminopropyltriethoxysilane (APS) reagent before the first affinity sequence is attached.

Attorney Docket: 612,404-424

- 6. (Original) The method of claim 4, wherein the first affinity sequence is reacted to form a dialdehyde group at a terminal position of the first affinity sequence.
- 7. (Original) The method of claim 1, further comprising the steps of:
 dehybridizing the second affinity sequences that are not cross-linked;
 providing a functionalized third affinity sequence, which reacts with the second affinity sequence, and has an unhybridized overhang sequence; and
 selectively cross-linking the second and third affinity sequences.
- 8. (Original) The method of claim 8, wherein the cross-linking is performed by UV irradiation with psoralen.
- 9. (Original) The method of claim 7, wherein at least one location on the support is masked to prevent cross-linking of the second and third affinity sequences.
- 10. (Original) The method of claim 1, further comprising providing a fourth affinity sequence that hybridizes with the first affinity sequence and includes a fluorescent label.

Attorney Docket: 612,404-424

- 11. (Original) The method of claim 1, further comprising providing a fifth affinity sequence that hybridizes with the second affinity sequence and includes a fluorescent label.
- 12. (Original) The method of claim 7, further comprising a sixth affinity sequence that hybridizes with the third affinity sequence and includes a fluorescent label.